CLAIMS

[Claim 1] A radiation cooling structure comprising: a reflective layer and a resin-made transparent protective layer provided on the reflective layer, wherein

an uneven surface with a plurality of resin-made raised portions each different in size is formed on the protective layer, and

the raised portions have a total luminous transmittance higher than that of the protective layer.

[Claim 2] The radiation cooling structure of claim 1, wherein

the plurality of raised portions forming the uneven surface are provided at random on the protective layer.

[Claim 3] The radiation cooling structure of claim 1, wherein

a median of a distribution of outer diameters of the plurality of raised portions forming the uneven surface is 5 μm or more and 15 μm or less.

[Claim 4] The radiation cooling structure of claim 1, wherein

an arithmetic mean height of the uneven surface is 1 μm or more and 10 μm or less.

[Claim 5] The radiation cooling structure of claim 1, wherein

a percentage of an area occupied by the raised portions on the uneven surface is 10% or more.

[Claim 6] The radiation cooling structure of claim 1, wherein

the raised portion is a solidified product of droplets of a liquid resin.

[Claim 7] The radiation cooling structure of claim 6, wherein

the raised portion is formed by stacking the solidified product of the droplets of the liquid

resin.

[Claim 8] The radiation cooling structure of claim 1, wherein

the raised portion is made of an acryl-based resin.

[Claim 9] The radiation cooling structure of claim 1, wherein

the protective layer is made of a urethane acrylic resin.

[Claim 10] The radiation cooling structure of claim 1, wherein

the reflective layer is made of silver or a silver alloy.

[Claim 11] The radiation cooling structure of claim 1, wherein

a specular glossiness at 60° is 350% or less, and a specular glossiness at 85° is 35% or less.

[Claim 12] The radiation cooling structure of claim 1, wherein

a sunlight reflectance in a whole wavelength range of 300 nm to 2500 nm is 90% or less.

[Claim 13] A method for manufacturing a radiation cooling structure of claim 1, wherein

the plurality of raised portions are solidified products obtained by forming a plurality of droplets of a liquid resin on the protective layer and then solidifying the plurality of droplets.

[Claim 14] The method of claim 13, wherein

operation of forming and solidifying the droplets of the liquid resin is repeated multiple times.